



STIC Search Report

EIC 1700

STIC Database Tracking Number: 132626

TO: Janis Dote
Location: REM 9C75
Art Unit : 1756
September 20, 2004

Case Serial Number: 10/699039

From: Kathleen Fuller
Location: EIC 1700
REMSEN 4B28
Phone: 571/272-2505
Kathleen.Fuller@uspto.gov

Search Notes

Only 2 structures from a broad query and 1 CA reference .

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 68274 Date: 9/14/04
 Art Unit: 1756 Phone Number 305-712-2722 Serial Number: 101699,039
 Mail Box and Bldg/Room Location: REM 9075 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: ORGANOPHOTORECEPTOR WITH CHARLE TRANSPORT MATERIAL
WITH A VINYL GROUP
 Inventors (please provide full names): GRAZILIEVICIUS VUOZAS VIDAS; SUKA GINTAKAS;
JANKAUSKAS VYGINTAS; GAIDELIS VALENTAS; BUDRECKIENE RUTA;
TOKARSKI ZBIGNIEW; JUBRAN NUSRALLAH
 Earliest Priority Filing Date: 10/13/103

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Search compounds in attached claims 23-26
 Note particular species in claims 26

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:	<u>R. Fuller</u>	NA Sequence (#)	STN <u>1</u>
Searcher Phone #:		AA Sequence (#)	Dialog
Searcher Location:		Structure (#)	Questel/Orbit
Date Searcher Picked Up:	<u>9/20/04</u>	Bibliographic	Dr.Link
Date Completed:	<u>9/20/04</u>	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	<u>30</u>	Fulltext	Sequence Systems
Clerical Prep Time:		Patent Family	WWW/Internet
Online Time:	<u>45</u>	Other	Other (specify)

DOTE 10/699039 9/20/04 Page 1

=> file reg
FILE 'REGISTRY' ENTERED AT 10:29:05 ON 20 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6
DICTIONARY FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file hcaplus
FILE 'HCAPLUS' ENTERED AT 10:29:13 ON 20 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

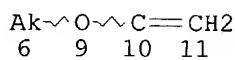
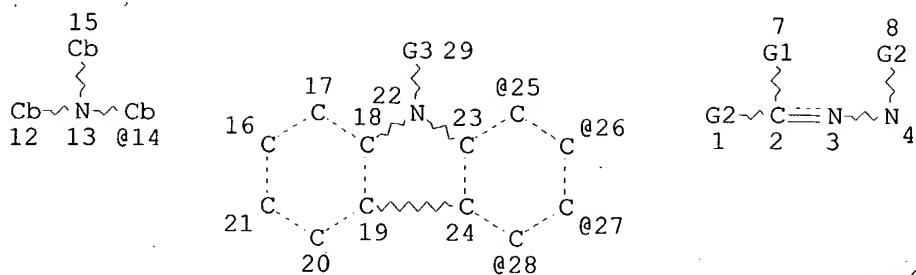
Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 20 Sep 2004 VOL 141 ISS 13
FILE LAST UPDATED: 19 Sep 2004 (20040919/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 117
L18 1 L17

=> d que
L15 STR



VAR G1=14/25/26/27/28

VAR G2=H/AK/CB

VAR G3=AK/CB

NODE ATTRIBUTES:

CONNECT IS M2 RC AT 6

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L17 2 SEA FILE=REGISTRY SSS FUL L15

L18 1 SEA FILE=HCAPLUS ABB=ON L17

=> d 118 bib abs ind hitstr

L18 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:451224 HCAPLUS

DN 135:53484

TI Electrophotographic photoreceptor, process cartridge, and electrophotographic apparatus

IN Sekiya, Michiyo; Kikuchi, Norihiro; Maruyama, Akio; Amamiya, Shoji; Uematsu, Hiroki; Tanaka, Hiroyuki; Daichi, Atsushi

PA Canon Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 115 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001166519	A2	20010622	JP 1999-353343	19991213
PRAI JP 1999-353343		19991213		

AB The protective layer of the electrophotog. photoreceptor contains a compound formed by the polymerization of a pos. hole transporting compound having ≥ 1 polymerizable functional group and the photosensitive layer contains a charge-transporting substance having the mol. w.t ≥ 350 . The polymerization is initiated by an electron beam with an acceleration energy of ≤ 250 kV and a dose of 1-100 Mrad. The process cartridge and the

V, the vinyl group is floating because
X is so many variables. Not drawn
only 2 structures from
query covering
23-26

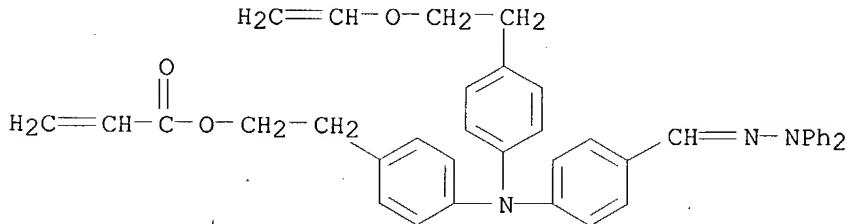
ICA
referenced

electrophotog. apparatus are also claimed. The protective layer provided scratch resistance without sacrificing the sensitivity of the photoreceptor.

IC ICM G03G005-147
ICS G03G005-06; G03G005-07
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38
ST electrophotog photoreceptor protective layer hole transporting polymer;
electron beam polymn electrophotog photoreceptor
IT Electrophotographic photoconductors (photoreceptors)
(hole hole transporting polymer contained in protective layer)
IT Electrophotographic apparatus
(hole hole transporting polymer contained in protective layer of
electrophotog. photoreceptor)
IT Electron beams
(irradiation; polymerization of hole transporting substance contained in
electrophotog. photoreceptor)
IT Polymerization
(of hole transporting substance contained in electrophotog.
photoreceptor)
IT 65181-78-4 119344-18-2 132571-92-7 154075-58-8 204135-52-4
344449-56-5 344449-57-6 344449-58-7 344449-59-8
RL: DEV (Device component use); USES (Uses)
(charge-transporting substance contained in electrophotog.
photoreceptor)
IT 268222-22-6P 268222-38-4P 268222-43-1P 268223-53-6P 269402-73-5P
344449-37-2P 344449-39-4P 344449-41-8P 344449-43-0P 344449-45-2P
344449-48-5P 344449-50-9P 344449-53-2P 344449-55-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(hole hole transporting polymer contained in protective layer of
electrophotog. photoreceptor)
IT 344449-53-2P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(hole hole transporting polymer contained in protective layer of
electrophotog. photoreceptor)
RN 344449-53-2 HCPLUS
CN 2-Propenoic acid, 2-[4-[[4-[(diphenylhydrazone)methyl]phenyl][4-[2-(ethoxy)ethyl]phenyl]amino]phenyl]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 344449-52-1
CMF C40 H37 N3 O3



=> file reg

FILE 'REGISTRY' ENTERED AT 10:30:15 ON 20 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6
DICTIONARY FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

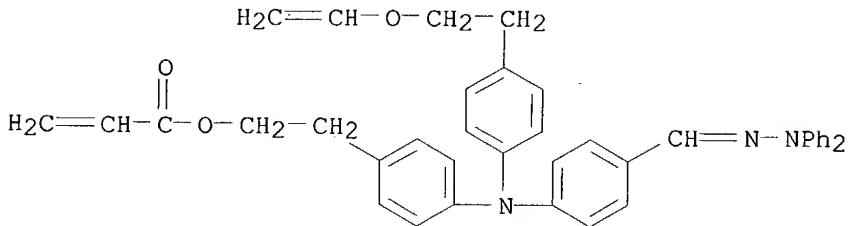
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d 117 1-2

L17 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 344449-53-2 REGISTRY
CN 2-Propenoic acid, 2-[4-[(4-[(diphenylhydrazone)methyl]phenyl)[4-[2-(ethoxy)ethyl]phenyl]amino]phenyl]ethyl ester, homopolymer (9CI) (CA INDEX NAME)
MF (C₄₀ H₃₇ N₃ O₃)
CI PMS
PCT Polyacrylic, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

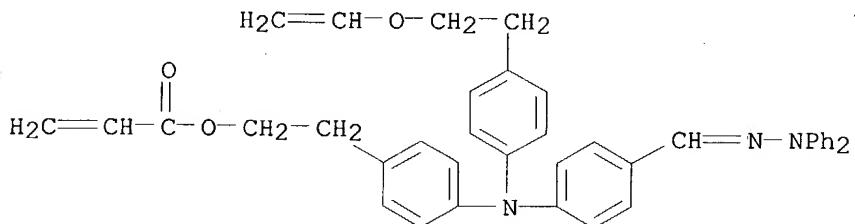
CM 1

CRN 344449-52-1
CMF C₄₀ H₃₇ N₃ O₃



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 344449-52-1 REGISTRY
CN 2-Propenoic acid, 2-[4-[(4-[(diphenylhydrazone)methyl]phenyl)[4-[2-(ethenyoxy)ethyl]phenyl]amino]phenyl]ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C40 H37 N3 O3
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=>